

Title (en)

METHODS AND SYSTEMS FOR LARGE-SCALE AIRFRAME ASSEMBLY

Title (de)

VERFAHREN UND SYSTEME ZUR AIRFRAME-MONTAGE AUF GROSSEM MASSSTAB

Title (fr)

METHODES ET SYSTEMES POUR ASSEMBLER DES COMPOSANTS D'AVION A GRANDE ECHELLE

Publication

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Application

EP 05722645 A 20050131

Priority

- US 2005003080 W 20050131
- US 77409104 A 20040206

Abstract (en)

[origin: US2005172470A1] Methods and systems for large-scale airframe assembly are disclosed. In one embodiment, a method includes measuring a plurality of discrete point positions at least one of on and adjacent to at least one of a first and a second component, and measuring at least one surface position on the at least one of the first and second components. The measured positions are compared with a desired position information (e.g., a computer aided design model). The comparison may include applying a fitting routine to the measured positions and the desired position information. Next, a transformation matrix for improving the comparison between the measured positions and the desired position information is computed. At least one of the first and second components is then moved according to the transformation matrix. During movement, the plurality of discrete point positions may be monitored and provided to the position control system by a feedback loop.

IPC 8 full level

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Citation (search report)

See references of WO 2005078543A1

Cited by

US11361391B2; US11520314B2; US10391751B2; WO2018073421A3; US10275565B2; US11188688B2; US10712730B2; US11294357B2; US11415968B2

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